

001-68231

SECRET

21 AUG 69 23 35Z

PRIORITY

P 212158Z AUG 69

FM NPIC WASHDC

TO RHCOAAA/SAC OFFUTT AFB OMAHA NEBRASKA

RUWBKNA/15TH AF MARCH AFB RIVERSIDE CALIF

RUWJIEA/14TH SAD BEALE AFB CALIF

RUWJIEA/9RTS BEALE AFB CALIF

RUWMODA/100 SRW DAVIS MONTHAN AFB ARIZONA

RUVRAAA/WRAMA. WARNER ROBBINS AFB GEORGIA

RUEFHQA/HQ USAF WASHDC

RUCRJCS/DIA/DIAXX-2 WASHDC

RUEBJRA/NAVRECONTECHSUPCEN SUITLAND MD

RUEAIIA/CIA WASHDC

BT

S E C R E T CITE NPIC 6871

SAC FOR DISD, DPLC, DIRI [REDACTED]; 15TH AF FOR DICR DOR;

HQ USAF FOR AFXOTR, AFIGOS [REDACTED] DIA FOR DIAXX2

SUBJECT: EVALUATION OF IRIS II TEST MISSION, FLOWN 9 JULY 69.

1. IMAGE QUALITY: THE IMAGE QUALITY OF THIS MISSION RANGES FROM POOR, ON THE FIRST 350 FRAMES, TO GOOD FOR MOST OF THE REMAINDER OF THE MISSION. SEVERE IMAGE SMEAR AND DOUBLE IMAGERY

25X1

25X1

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IS PRESENT OVER MOST OF THE FORMAT OF FRAMES 1 THRU 350.

AFTER FRAME 350 A NOTICEABLE IMPROVEMENT IN QUALITY IS APPARENT. THE IMAGERY ALONG THE UNTITLED EDGE IS OF SLIGHTLY BETTER QUALITY THAN THE IMAGERY ALONG THE TITLED EDGE ON THE FORWARD FRAMES THROUGHOUT THE MISSION. THIS CONDITION IS NOT PRESENT ON THE AFT FRAMES. VERY LITTLE DETAIL CAN BE DETECTED IN CLOUD SHADOW AREAS. THIS LOSS OF DETAIL APPEARS TO BE THE RESULT OF A SLIGHT UNDEREXPOSED CONDITION. THE INTERPRETATION SUITABILITY IS RATED AS FAIR DUE TO THE POOR QUALITY OF THE FIRST 350 FRAMES, THE EXTENSIVE CLOUD COVER AND THE LOSS OF DETAIL IN CLOUD SHADOW. IN AREAS OF GOOD IMAGERY, THE INTERPRETATION SUITABILITY IS GOOD. CLOUD COVER AND HAZE OBSCURE APPROXIMATELY 40 PERCENT OF THE MISSION.

2. MISSION DATA:

- A. IRIS II TEST; 9 JULY 1969
- B. CAM NUM: 8007
- C. A/C NUM: 339
- D. MODE OF OPERATION: STEREO
- E. FLIGHT TIMES: T/O - 1625Z
C/ON-1827Z

DISTRIBUTION		
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	PROD	
	SCIEN	
	WEST	
	EAST	
	M&S	
	PGM	
	IAS	
	DIA-XX4	
	SPAD	
	DIA-AP	
	[REDACTED]	
	CMX	

25X1

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C/OFF-1950Z

C/ON-2218Z

- F. FILM TYPE/FILTER: 3404/W-23A
- G. PROCESS: MX-578
- H. AVERAGE GAMMA: 2.81

3. ORIGINAL NEGATIVE:

- A. EXPOSURE: THE MISSION APPEARS TO BE SLIGHTLY UNDEREXPOSED THROUGHOUT.
- B. DENSITY AND CONTRAST: GENERALLY THIN TO MEDIUM.
- C. IMAGED DEGRADATIONS: BANDING PARALLEL TO THE MINOR AXIS OF THE FILM IS PRESENT THROUGHOUT THE MISSION. IN ADDITION, NUMEROUS PLUS AND MINUS DENSITY STREAKS PARALLEL TO THE MAJOR FILM AXIS ARE PRESENT THROUGHOUT THE MISSION. THESE DEGRADATIONS ARE MOST APPARENT IN AREAS OF HEAVY DENSITY. A PLUS DENSITY STREAK IS PRESENT INTERMITTENTLY IN

ADVANCE CY
SANITIZED
WITH TEXT

GROUP 1
Excluded from automatic
downgrading and
declassification

2

THE BORDER AREA OF THE TITLED EDGE THRU FRAME 1000. FRAME 514 CONTAINS SEVERAL RANDOMLY SPACED MINUS DENSITY SPOTS OF UNKNOWN ORIGIN. FRAMES 565 AND 566 CONTAIN FOG ASSOCIATED WITH THE CAMERA OFF/ON. FRAMES 2 AND 568 CONTAIN A FOGGED AREA APPROXIMATELY 0.8 INCHES WIDE, EXTENDING 3.9 INCHES AND 3.4

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INCHES RESPECTIVELY INTO THE FORMAT. BOTH AREAS ARE LOCATED NEAR THE 50 DEGREE LEFT SCAN OAK. TWO DIAGONAL ROWS OF PLUS DENSITY STATIC MARKS (1.3 INCHES APART) APPARENTLY CAUSED BY THE TAKE-UP SIDE SKEW BAR, ARE PRESENT NEAR THE 50 DEGREE RIGHT SCAN MARK. THESE MARKS ARE PRESENT ON MOST FRAMES AFTER THE CAMERA OFF/ON. A DIAGONAL MINUS DENSITY MARK (1.3 INCHES WIDE) APPARENTLY CAUSED BY THE SUPPLY SIDE SKEW BAR, IS PRESENT NEAR CENTER FORMAT IN MOST FRAMES THROUGHOUT THE MISSION. BOTH ANOMALIES APPARENTLY OCCURRED WHILE THE FILM WAS STATIONARY DURING THE DATA BLOCK EXPOSURE PERIOD. FRAMES 1215, 1216 AND 1217 EXHIBIT SEVERE CROSS TRACK SMEAR AT START OF SCAN AND MINOR SMEAR AT END OF SCAN. NO CAUSE COULD BE DETECTED. DOUBLE IMAGERY IS PRESENT AT 47 DEGREES LEFT AND RIGHT OF CENTER FORMAT ON ALL FORWARD FRAMES AND 57 DEGREES LEFT AND RIGHT OF CENTER FORMAT ON ALL AFT FRAMES. WINDOW JOINTS ARE THE APPARENT CAUSE OF THIS DEGRADATION.

D. PHYSICAL DEGRADATIONS: SEVERAL MINOR SCRATCHES PARALLEL TO THE MAJOR AXIS OF THE FILM ARE PRESENT THOUGHOUT THE MISSION. FRAMES 634, 720, 721, 802 AND 803 CONTAIN NUMEROUS EMULSION LIFTS. EMULSION DEFECTS ARE PRESENT IN FRAMES 494, 744,

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AND 772. TWO SMALL CREASES ENTER APPROXIMATELY 0.75 INCH INTO THE DATA BLOCK OF FRAME 210. EIGHT HEAT SPLICES AND TWO ULTRASONIC SPLICES ARE PRESENT IN THE MISSION FILM.

E. DATA RECORDING EQUIPMENT: THE TITLED EDGE SCAN MARKS ARE FAINT AND ARE NOT READILY DETECTABLE. THE UNTITLED EDGE SCAN MARKS ARE SHARP AND WELL DEFINED. THE COUNTER FAILED TO RECYCLE AT THE BEGINNING OF THE MISSION AND AT THE CAMERA OFF/ON BETWEEN FRAMES 565 AND 566. THE WRITE-IN DATA CARD APPEARS DENSE AND IS DIFFICULT TO READ.

F. OTHER: ONE CASE OF MIS-METERING WAS DETECTED. A DATA BLOCK OVERLAPS FRAME 205 BY 0.25 INCH. MOST FRAMES MEASURED 60.65 INCHES. MOST FORMATS MEASURED 58.66 INCHES. IN MOST CASES WHERE THE FRAME WAS SHORTER, ALL SCAN SEGMENTS WERE CORRECT (8.38 INCHES) EXCEPT FROM 50 DEGREES TO 30 DEGREES RIGHT WHICH MEASURED APPROXIMATELY 8.1 INCHES. THE FORWARD-TO-FORWARD AND AFT-TO-AFT FRAME OVERLAP RANGES FROM 0 TO 25 PERCENT. THIS PROBLEM APPEARS TO BE THE RESULT OF A PITCHING MOTION OF THE VEHICLE. THE LAST TITLED FRAME OF THE MISSION IS 1452.

4. POSITIVES: ADEQUATE FOR EXPLOITATION PURPOSES.

GP-1

S E C R E T

-END OF MSG-